LIVING UP TO THE LUBRICATION CHART.

On By Mileage Not By Guesswork.

There is furnished with every new car a very clear diagram parts, with the intervals at which each should be fulrished at ubricant required, plainly marked in connection with each and t gram is, by all means, the most important instruction furnished the manufacturer. If its directions are faithfully followed, as the streat and repair bills small and viv versa. It should be posted where it can always be referred to and any motorist who may copy should obtain a new one from the factory. The well prepared to give the olding intervals in miles ruin, for instance. Fill ing to plugged hole each 100 miles, and this is the only reason the jubrication needs of the various parts. Such instruction for turn down title grease once a session or turn down title grease in a correction.

ACCELERATOR FOOTREST.

MAGNETO RECHARGING.

N. K. asks! Can a Ford magneto be recharged with current from a number of dry-cells? How do you set the magneto when the current is applied?

Answer: It would be impracticable to, try to get together enough dry-cells to furnish the necessary current especially as storage batteries are readily available. Four or tive six-volt vehicle batteries are sufficient to give

REPLACING SPEEDOMETER

SPROCKET.

TROUBLE IN GENERATOR OR CUT OUT.

E M G asks: Can you tell me what a wrong with my six-volt generator, which shows no charge by the am-

CLEANING CELLULOID CUR TAIN LIGHTS.

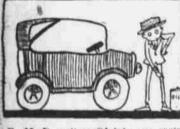
CARBURETOR.



PROBABLY A CARBURETION DIFFICULTY.



THIN OIL MAY CAUSE THIS



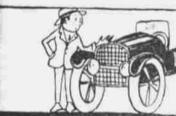
R. M. D. writes: Of late my engine has been running all right while moderately warm, but after it has become thoroughly heated, it seems to less power, and does not operate so smothly, upcelally when I push it rather hard. Formerly it seemed to run ierter the hotter it became. How so you explain this?

Answer: It occurs to us as possible that this trouble may be due by the engine oil that you are using, for if the oil has become thinned by fuel admixture, is of poor quality or of too bight a grade, it is likely to unincute sufficiently, while it is still fairly cool, but to become so thin, under introuchest and heavy pressures, as to full to lubricate and to give use to excessive engine friction, resulting in loss of inseful power and noisy engine operation.

RADIATOR NEEDS CLEAN. ING OUT.

V. D. writes: When I took my rar out of storage this spring and had run the engine for a while to test it. I happened to pass my hand over the radiator and noticed that there was quite a large space on one side that had not heated up. Does this indicate anything wrong:

Answer: This is evidence that there is no circulation of water through a portion of the radiator, on account of the passages having become chaged with sediment and, if this is the case. We cooling capacity of the radiator will be reduced, possibly to want an executas to cause the engine to overhear



CASTOR OIL FOR CYLINDER LUBRICATION.

P. H. asks: If castor on its ordinary all in alregate by le it not used in any

RADIATOR AND TIRE QUES. TIONS.

A. G. H. asks: Is there any way of tightening a tubular radiator, which lasks, without tearing it to pieces. Will the stuff that is sold to stop radiator leaks, be likely to interfere with the circulation? What is the best material to cost rims with to keep them from rusting? Why is it necessary to use (askum powder on inner tubes? Answer: Thick white lead, applied to the leak, will harden and stop it temporarily, but it is necessary to solder the crack in a tube to make a permanent repair. To get at the damaged

PISTON RINGS NOT WORN



ENGINE MAY BE STIFF.



and installing a new carburetor and imer, but now, while it runs pretty well on the level, it will not pull the

awkward to operate, but one can become used to almost anything of this kind, by long experience. Sometimes a footrest may prove of help to the operators and adjustable accelerator footrests of very neat design are on the market. Any attachment to the footboard that gives support to the foot against involuntry movement, without interfering with intentional motion, is of value. A properly shaped and located block, fixed to the floorboard, such as you can make yourself, may help to solve the problem and we suggest that you experiment on these lines.

REWIRING OLD CAR.



on my car is very old and has been giving so much trouble that I am going to replace it. Can you give me any suggestions to help me in doing the job

Answer: So many things may be wrong after an overhauling that the utmost we can do is to make a few suggestions as to where the trouble may be. See that the new pistons are not too tightly fitted, that there is good compression in each cylinder, that the valves and timer are set according to discetions, that the spark is properly powerful, that the carburretor gets plenty of gasoline and is adjusted for full power and that the whole car runs freely, with no "drag" at the brakes or elsewhere. Frequently new pistons are fitted so tightly that, when heated, by hard pulling, they bind so tightly in their cylinders that very little useful power is developed by the engine.



conductor can not be used, luciose conductors in flexible interior conduct tubing. Use special copper terminals, soldered to the ends of wires, for connections instead of clamping their barsed ends under contact nuts. Be sure that all conductors, that can be, are fastened to the frame or other stationary parts, by means of clips or cleats, so that they shall not chafe or become that they shall not chafe or become to the transcount of the way of escaping oil and the car and place a compass with a needle pivot one inch to the left of his line and about six inches back of the post. Then crank over the engine will the command needle points parts.

BRIDGING THE BARRIER.

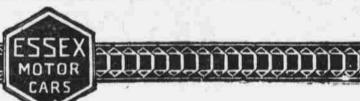
ENGINE LOSES POWER AND



W. L. D. asks: What makes my en

FLAP IMPORTANT IN LIFE OF TIRES

The flap is an important, yet little The flap is an important, yet little considered accessory in the automobile tire. As a protector between tube and rim, it is vital to the long life of the tube. It prevents deterioration from the rust that invariably gathers on the rim. It prevents the tube from pinching between the edges of the tire. Ordinarily, a flap is made of from three to four plies of fabric. It is constructed to conform to the shape of the tire. Inserted, it should lay perfectly straight between the tube and rim without buckling.



Nearly 50,000 Owners Know

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> For cars its size it holds all world speed and endurance records from 1 to 50 hours. And another Essex stock touring car set the world's 24hour road record of 1061 miles, over snow-covered Iowa country roads.

> Do not these marks, coupled with the satisfaction of nearly 50,000 owners, settle the light car question?



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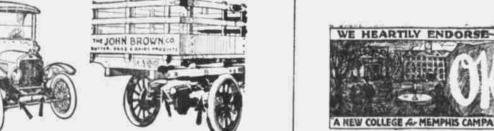
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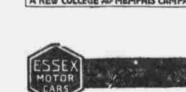
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